

CO₂ Incubator
MD-120/180/240



Key Features




- Data Manage:** Real-time view of parameter curves: temperature, CO₂ concentration, and O₂ concentration; Data logging and download function.
- Touch Screen:** 10-Inch color touch screen, clear and Intuitive display, USB interface for Data output.
- CO₂ Control:** Imported infrared (IR) CO₂ sensor, not affected by temperature and humidity changes, stable control and long service life.
- Fast CO₂ Recovery:** CO₂ content recovers to 5% of set level within 5Min. , after opening door for 30Sec, achieving rapid stability and uniformity.
- Temperature Control:** High-precision temperature sensor to ensure accurate control of Chamber temperature.
6 sided heating can prevent generating condensate, it avoids breeding bacteria and causing contamination to the cultivation environment.
- Contamination Prevent:** 140℃ dry heat disinfection on the chamber to provide safe experimental environment.
Built-in HEPA can quickly maintain the air cleanliness to ISO5 level.
Air inlet equipped with HEPA to effectively block bacteria and dust particles ≥0.3μm in CO₂ gas.
With heating function, outer door can effectively prevent inner glass from generating condensate, avoids risk of microbial contamination.
Optional 90℃ moist heat disinfection.
- Humanized Design:** Detachable, anti-dumping, integrated shelf can be disassembled without tools.
HEPA is easy to disassemble and install without tools.
Visual glass door for easy experiment observation.
- Safety System:** Alarm of High temperature, low temperature and over-heated\cooling fan automatic start and stop
CO₂ content excess or too low\Disinfect palm rejection\HEPA replace alert.
- Integrated Chamber:** SS304 material, corrosion-resistant, 100% arc design, no dead corners, easy to clean, effectively prevent contamination.
Optional bacterial-control stainless steel.
- Test Hole:** Connected to external sensors of temperature, CO₂ content, humidity, and etc.
Cables can be introduced through it, ensuring sealing of Chamber.
- Sampling Hole:** Chamber parameters such as temperature and gas content can be measured through it.

Technical Parameters

CO ₂ Incubator			
Name			
Model(L)	MD-120/180/240	Alarm parameter setup	Upper deviation: 0~+1
Control system	PID control	Humidification	Natural
Heating method	Air-jacketed	Humidity range, %RH	Up to 95%
Temperature range °C	Ambient temperature +3~60	Dimensions (excluding feet)	560X620X710mm
Temperature control accuracy °C	±0.1		580X640X940mm
Temperature uniformity°C	±0.3	Chamber size	680X740X860mr
Alarm setting Max. deviation	0~+5°C		480X500X500mm
Alarm setting Min. deviation	-5~0°C	Power supply	500X520X710mm
Ambient temperature	18~30°C		600X620X650mm
Disinfection	Standard 140°C dry heat, Optional 90°C moist heat / UV	Chamber	AC220±10%,50-60Hz
CO ₂ concentration range, %CO ₂	0-20	Housing	120L/180L/240L
CO ₂ control accuracy, %CO ₂	±0.1		Volume
CO ₂ Sensor	IR infrared sensor	Power	1200W
			SS304 mirror, Optional bacterial-control stainless steel
			Carbon steel coated

Unique Advantages

-  PID Control System
-  Infrared CO₂ Sensor
-  6-sided Air Jacketed heating mode
-  140℃ Dry Heat Disinfect
-  Temperature Deviation Alarm
-  Built-in HEPA
-  Temperature Uniformity (<±0.3℃)
-  Ergonomic Design